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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/084,252	02/28/2002	Masashi Yano	62807-047	2014
7590 12/13/2005			EXAMINER	
MCDERMOTT, WILL & EMERY 600 13th Street, N.W. Washington, DC 20005-3096			MAIS, MARK A	
			ART UNIT	PAPER NUMBER
			2664	

DATE MAILED: 12/13/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

10/084,252

Applicant(s)

YANO ET AL.

Examiner

Mark A. Mais

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-8 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1 is/are rejected.
- 7) ☒ Claim(s) 2-8 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 28 February 2002 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date 28 FEB 2002.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_.

## **DETAILED ACTION**

### ***Priority***

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

### ***Information Disclosure Statement***

2. The information disclosure statement (IDS) was submitted on February 28, 2002 together with the Application. The submission is in compliance with the provisions of 37 CFR 1.97. Accordingly, the examiner considered the information disclosure statement.

### ***Claim Rejections - 35 USC § 102***

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claim 1 is rejected under 35 U.S.C. 102(e) as being anticipated by El-Malki et al. (USP 6,947,401).
5. With regard to claim 1, El-Malki et al. discloses a mobile communication system comprising:

a mobile terminal having means receiving radio waves from a plurality of base stations  
**[Fig. 3, mobile node 305];**

a home network to which the mobile terminal belongs **[home agent 345];**  
a plurality subnetworks to which the terminal might move **[Mobility anchor point 375];**  
advertising routers respectively provided the subnetworks advertise information of a  
pertinent subnetwork to the mobile terminal via the base station **[Access Routers 310, 315];** and  
a home agent device having means for managing terminal and registering a routing  
address to be used temporarily subnetwork to which the mobile terminal moves, and movement  
of the mobile terminal means responsive when the routing address capturing a packet addressed  
home address the mobile terminal the home network and transferring already registered, the  
captured packet to mobile terminal moves the subnetwork to which the accordance with the  
registered routing address **[home agent 345],**

wherein each of said advertising routers comprises means for advertising an interface ID  
and a prefix section of the routing address from a base station pertinent subnetwork information  
**[it is inherent for MIPv6 that all routers have a unique routing prefix and that the mobile  
node uses methods such as DHCP to get an interface ID; see, for example, Mobility  
Support for IPv6, draft-ietf-mobileip-ipv6-13.txt, sent in as an IDS by Applicant],** and

wherein said mobile terminal comprises a registration unit, and if the terminal has  
received a plurality of routing addresses having same prefix section and differing in interface ID  
while moving from the home network a different subnetwork, then the registration unit combines  
the plurality routing addresses into one recognizable routing header address in accordance with a  
predetermined rule, and registers the routing header address with the home agent device **[the**

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**mobile node 305 uses the router advertisements and sends the home agents, during handoff, a new care-of-address (routing header address) along with it's current care-of address using the "new" binding update message in Fig. 8; see also col. 9, lines 55-61].**

***Allowable Subject Matter***

6. Claims 2-8 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

7. The following is a statement of reasons for the indication of allowable subject matter:

The Examiner not found an mobile IPv6 system wherein a different bit is assigned to the interface ID of every subnetwork, transmitted by advertising routers for transmitting subnetwork information which includes, in the routing address, a "1" set in a bit assigned to each unique subnetwork, wherein the mobile terminal, responsive to a plurality of prefix sections of routing addresses contained in a plurality of received subnetwork information pieces, performs a logical sum operation on the plurality of interface IDs and adopts the result of the logical sum operation as the routing header address.

***Conclusion***

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:

(a) Magrat et al. (USP 6,804,221), Micromobility using multicast. This reference contains all the limitations of claim 1.

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(b) Agrawal et al. (USP 6,490,259), Active link layer and intra-domain mobility for IP networks. This reference contains all the limitations of claim 1.

(c) Thubert et al. (USP 6,865,184), Arrangement for traversing an Ipv4 network by Ipv6 mobile nodes.

(d) Faccin (USP 6,907,033) Apparatus, and associated method, for providing router advertisement information to a mobile node in a radio IP system.

(e) Shitama (US Patent Publication 2002/0126642). Communication processing system, communication processing method, communication terminal device, and program. This reference contains all the limitations of claim 1.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mark A. Mais whose telephone number is (571) 272-3138. The examiner can normally be reached on 6:00-4:30.

10. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wellington Chin can be reached on (571) 272-3134. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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11. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

29 November 2005

  
**Ajit Patel**  
**Primary Examiner**